

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/041354

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01R13/24

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01R G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 528 500 A (LIGHTBODY ET AL) 9 July 1985 (1985-07-09)	1,3
Y	column 5, line 28 - line 37; figure 3	2,4-9
Y	US 5 936 421 A (STOWERS ET AL) 10 August 1999 (1999-08-10)	2,8,9
Y	column 13, line 16 - line 42; figure 23	
Y	EP 1 172 658 A (INTERCONNECT DEVICES INC) 16 January 2002 (2002-01-16)	4-6
	page 4, column 4, line 5 - line 7 page 4, column 4, line 25; figures 6,7	
Y	US 5 393 246 A (DU ET AL) 28 February 1995 (1995-02-28)	7-9
	column 4, line 16 - line 20; figure 5	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

6 April 2005

Date of mailing of the international search report

02/05/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 046 597 A (BARABI ET AL)  4 April 2000 (2000-04-04)  column 4, line 4 - line 7; figure 4  -----</p>	1-9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/041354

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4528500	A	09-07-1985	US 4443756 A	17-04-1984
US 5936421	A	10-08-1999	US 5850147 A	15-12-1998
			US 5576631 A	19-11-1996
			US 5633597 A	27-05-1997
EP 1172658	A	16-01-2002	US 6424166 B1	23-07-2002
			EP 1172658 A2	16-01-2002
US 5393246	A	28-02-1995	CA 2114813 A1	03-08-1995
US 6046597	A	04-04-2000	WO 9713301 A1	10-04-1997
			US 6354859 B1	12-03-2002
			US 6559665 B1	06-05-2003